HANDBOOK OF Computer Crime Investigation

Forensic Tools and Technology

Edited by **Eoghan Casey**

Handbook Of Computer Crime Investigation Forensic Tools And Technology

W. Jerry Chisum,Brent E. Turvey

Handbook Of Computer Crime Investigation Forensic Tools And Technology:

Handbook of Computer Crime Investigation Eoghan Casey,2001-10-22 Following on the success of his introductory text Digital Evidence and Computer Crime Eoghan Casey brings together a few top experts to create the first detailed guide for professionals who are already familiar with digital evidence The Handbook of Computer Crime Investigation helps readers master the forensic analysis of computer systems with a three part approach covering tools technology and case studies The Tools section provides the details on leading software programs with each chapter written by that product s creator The section ends with an objective comparison of the strengths and limitations of each tool The main Technology section provides the technical how to information for collecting and analyzing digital evidence in common situations starting with computers moving on to networks and culminating with embedded systems The Case Examples section gives readers a sense of the technical legal and practical challenges that arise in real computer investigations The Tools section provides details of leading hardware and software The main Technology section provides the technical how to information for collecting and analysing digital evidence in common situations Case Examples give readers a sense of the technical legal and practical challenges that arise in real computer investigations *Handbook of Computer Crime Investigation* Eoghan Casey,2001-10 Following on the success of his introductory text Digital Evidence and Computer Crime Eoghan Casey brings together a few top experts to create the first detailed guide for professionals who are already familiar with digital evidence The Handbook of Computer Crime Investigation helps readers master the forensic analysis of computer systems with a three part approach covering tools technology and case studies The Tools section provides the details on leading software programs with each chapter written by that product s creator The section ends with an objective comparison of the strengths and limitations of each tool The main Technology section provides the technical how to information for collecting and analyzing digital evidence in common situations starting with computers moving on to networks and culminating with embedded systems The Case Examples section gives readers a sense of the technical legal and practical challenges that arise in real computer investigations The Tools section provides details of leading hardware and software 7 The main Technology section provides the technical how to information 7for collecting and analysing digital evidence in common situations Case Examples give readers a sense of the technical legal and practical 7challenges that arise in real computer investigations

Handbook of Digital Forensics and Investigation Eoghan Casey,2009-10-07 Handbook of Digital Forensics and Investigation builds on the success of the Handbook of Computer Crime Investigation bringing together renowned experts in all areas of digital forensics and investigation to provide the consummate resource for practitioners in the field It is also designed as an accompanying text to Digital Evidence and Computer Crime This unique collection details how to conduct digital investigations in both criminal and civil contexts and how to locate and utilize digital evidence on computers networks and embedded systems Specifically the Investigative Methodology section of the Handbook provides expert guidance in the

three main areas of practice Forensic Analysis Electronic Discovery and Intrusion Investigation The Technology section is extended and updated to reflect the state of the art in each area of specialization The main areas of focus in the Technology section are forensic analysis of Windows Unix Macintosh and embedded systems including cellular telephones and other mobile devices and investigations involving networks including enterprise environments and mobile telecommunications technology This handbook is an essential technical reference and on the job guide that IT professionals forensic practitioners law enforcement and attorneys will rely on when confronted with computer related crime and digital evidence of any kind Provides methodologies proven in practice for conducting digital investigations of all kinds Demonstrates how to locate and interpret a wide variety of digital evidence and how it can be useful in investigations Presents tools in the context of the investigative process including EnCase FTK ProDiscover foremost XACT Network Miner Splunk flow tools and many other specialized utilities and analysis platforms Case examples in every chapter give readers a practical understanding of the technical logistical and legal challenges that arise in real investigations Digital Evidence and Computer Crime Eoghan Casey,2004-03-08 Required reading for anyone involved in computer investigations or computer administration

Handbook of Research on Cyber Crime and Information Privacy Cruz-Cunha, Maria Manuela,Mateus-Coelho, Nuno,2020-08-21 In recent years industries have transitioned into the digital realm as companies and organizations are adopting certain forms of technology to assist in information storage and efficient methods of production This dependence has significantly increased the risk of cyber crime and breaches in data security Fortunately research in the area of cyber security and information protection is flourishing however it is the responsibility of industry professionals to keep pace with the current trends within this field The Handbook of Research on Cyber Crime and Information Privacy is a collection of innovative research on the modern methods of crime and misconduct within cyber space It presents novel solutions to securing and preserving digital information through practical examples and case studies While highlighting topics including virus detection surveillance technology and social networks this book is ideally designed for cybersecurity professionals researchers developers practitioners programmers computer scientists academicians security analysts educators and students seeking up to date research on advanced approaches and developments in cyber security and information protection

Cyber Crime and Forensic Computing Gulshan Shrivastava,Deepak Gupta,Kavita Sharma,2021-09-07 This book presents a comprehensive study of different tools and techniques available to perform network forensics Also various aspects of network forensics are reviewed as well as related technologies and their limitations This helps security practitioners and researchers in better understanding of the problem current solution space and future research scope to detect and investigate various network intrusions against such attacks efficiently Forensic computing is rapidly gaining importance since the amount of crime involving digital systems is steadily increasing Furthermore the area is still underdeveloped and poses many technical and legal challenges The rapid development of the Internet over the past decade appeared to have

facilitated an increase in the incidents of online attacks There are many reasons which are motivating the attackers to be fearless in carrying out the attacks For example the speed with which an attack can be carried out the anonymity provided by the medium nature of medium where digital information is stolen without actually removing it increased availability of potential victims and the global impact of the attacks are some of the aspects Forensic analysis is performed at two different levels Computer Forensics and Network Forensics Computer forensics deals with the collection and analysis of data from computer systems networks communication streams and storage media in a manner admissible in a court of law Network forensics deals with the capture recording or analysis of network events in order to discover evidential information about the source of security attacks in a court of law Network forensics is not another term for network security It is an extended phase of network security as the data for forensic analysis are collected from security products like firewalls and intrusion detection systems The results of this data analysis are utilized for investigating the attacks Network forensics generally refers to the collection and analysis of network data such as network traffic firewall logs IDS logs etc Technically it is a member of the already existing and expanding the field of digital forensics Analogously network forensics is defined as The use of scientifically proved techniques to collect fuses identifies examine correlate analyze and document digital evidence from multiple actively processing and transmitting digital sources for the purpose of uncovering facts related to the planned intent or measured success of unauthorized activities meant to disrupt corrupt and or compromise system components as well as providing information to assist in response to or recovery from these activities Network forensics plays a significant role in the security of today s organizations On the one hand it helps to learn the details of external attacks ensuring similar future attacks are thwarted Additionally network forensics is essential for investigating insiders abuses that constitute the second costliest type of attack within organizations Finally law enforcement requires network forensics for crimes in which a computer or digital system is either being the target of a crime or being used as a tool in carrying a crime Network security protects the system against attack while network forensics focuses on recording evidence of the attack Network security products are generalized and look for possible harmful behaviors This monitoring is a continuous process and is performed all through the day However network forensics involves post mortem investigation of the attack and is initiated after crime notification There are many tools which assist in capturing data transferred over the networks so that an attack or the malicious intent of the intrusions may be investigated Similarly various network forensic frameworks are proposed in the literature **Handbook of Information Security, Information Warfare, Social, Legal, and International Issues and Security Foundations** Hossein Bidgoli,2006-03-10 The Handbook of Information Security is a definitive 3 volume handbook that offers coverage of both established and cutting edge theories and developments on information and computer security The text contains 180 articles from over 200 leading experts providing the benchmark resource for information security network security information privacy and information warfare The Encyclopedia of Police Science Jack R. Greene,2007

First published in 1996 this work covers all the major sectors of policing in the United States Political events such as the terrorist attacks of September 11 2001 have created new policing needs while affecting public opinion about law enforcement This third edition of the Encyclopedia examines the theoretical and practical aspects of law enforcement discussing past and present practices Policing Digital Crime Robin Bryant,2016-04-22 By its very nature digital crime may present a number of specific detection and investigative challenges The use of steganography to hide child abuse images for example can pose the kind of technical and legislative problems inconceivable just two decades ago The volatile nature of much digital evidence can also pose problems particularly in terms of the actions of the first officer on the scene There are also concerns over the depth of understanding that generic police investigators may have concerning the possible value or even existence of digitally based evidence Furthermore although it is perhaps a clich to claim that digital crime and cybercrime in particular respects no national boundaries it is certainly the case that a significant proportion of investigations are likely to involve multinational cooperation with all the complexities that follow from this This groundbreaking volume offers a theoretical perspective on the policing of digital crime in the western world Using numerous case study examples to illustrate the theoretical material introduced this volume examine the organisational context for policing digital crime as well as crime prevention and detection This work is a must read for all academics police practitioners and investigators working in the field of digital crime Crime Reconstruction W. Jerry Chisum,Brent E. Turvey,2006-10-27 Crime Reconstruction is a guide to the interpretation of physical evidence It was developed to aid forensic reconstructionists with the formulation of hypotheses and conclusions that stay within the known limits of forensic evidence The book begins with chapters on the history and ethics of crime reconstruction and then shifts to the more applied subjects of general reconstruction methods and practice standards It concludes with chapters on courtroom conduct and evidence admissibility to prepare forensic reconstructionists for what awaits them when they take the witness stand This book is a watershed collaborative effort by internationally known qualified and respected forensic science practitioners with generations of case experience Forensic pioneers such as John D DeHaan John I Thornton and W Jerry Chisum contribute chapters on arson reconstruction trace evidence interpretation advanced bloodstain interpretation and reconstructionist ethics Other chapters cover the subjects of shooting incident reconstruction interpreting digital evidence staged crime scenes and examiner bias Rarely have so many forensic giants collaborated and never before have the natural limits of physical evidence been made so clear This book is ideal for forensic examiners forensic scientists crime lab personnel and special victim and criminal investigators Others who will benefit from this book are law enforcement officials forensic medical personnel and criminal lawyers Contains the first practice standards ever published for the reconstruction of crime Provides a clear ethical canon for the reconstructionist Includes groundbreaking discussions of examiner bias and observer effects as they impact forensic evidence interpretation Ideal for applied courses on the subject of crime reconstruction as well as those teaching crime reconstruction theory within

criminology and criminal justice programs Digital Forensics Angus McKenzie Marshall,2009-07-15 The vast majority of modern criminal investigations involve some element of digital evidence from mobile phones computers CCTV and other devices Digital Forensics Digital Evidence in Criminal Investigations provides the reader with a better understanding of how digital evidence complements traditional scientific evidence and examines how it can be used more effectively and efficiently in a range of investigations Taking a new approach to the topic this book presents digital evidence as an adjunct to other types of evidence and discusses how it can be deployed effectively in support of investigations The book provides investigators SSMs other managers with sufficient contextual and technical information to be able to make more effective use of digital evidence sources in support of a range of investigations In particular it considers the roles played by digital devices in society and hence in criminal activities From this it examines the role and nature of evidential data which may be recoverable from a range of devices considering issues relating to reliability and usefulness of those data Includes worked case examples test questions and review quizzes to enhance student understanding Solutions provided in an accompanying website Includes numerous case studies throughout to highlight how digital evidence is handled at the crime scene and what can happen when procedures are carried out incorrectly Considers digital evidence in a broader context alongside other scientific evidence Discusses the role of digital devices in criminal activities and provides methods for the evaluation and prioritizing of evidence sources Includes discussion of the issues surrounding modern digital evidence examinations for example volume of material and its complexity Clear overview of all types of digital evidence Digital Forensics Digital Evidence in Criminal Investigations is an invaluable text for undergraduate students taking either general forensic science courses where digital forensics may be a module or a dedicated computer digital forensics degree course The book is also a useful overview of the subject for postgraduate students and forensic practitioners **Encyclopedia of Police Science** Jack Raymond Greene,2006-10-23 In 1996 Garland published the second edition of the Encyclopedia of Police Science edited by the late William G Bailey The work covered all the major sectors of policing in the US Since then much research has been done on policing issues and there have been significant changes in techniques and in the American police system Technological advances have refined and generated methods of investigation Political events such as the terrorist attacks of September 11 2001 in the United States have created new policing needs while affecting public opinion about law enforcement These developments appear in the third expanded edition of the Encyclopedia of Police Science 380 entries examine the theoretical and practical aspects of law enforcement discussing past and present practices The added coverage makes the Encyclopedia more comprehensive with a greater focus on today s policing issues Also added are themes such as accountability the culture of police and the legal framework that affects police decision New topics discuss recent issues such as Internet and crime international terrorism airport safety or racial profiling Entries are contributed by scholars as well as experts working in police departments crime labs and various fields of policing Investigating Internet Crimes Todd G.

Shipley,Art Bowker,2013-11-12 Written by experts on the frontlines Investigating Internet Crimes provides seasoned and new investigators with the background and tools they need to investigate crime occurring in the online world This invaluable guide provides step by step instructions for investigating Internet crimes including locating interpreting understanding collecting and documenting online electronic evidence to benefit investigations Cybercrime is the fastest growing area of crime as more criminals seek to exploit the speed convenience and anonymity that the Internet provides to commit a diverse range of criminal activities Today s online crime includes attacks against computer data and systems identity theft distribution of child pornography penetration of online financial services using social networks to commit crimes and the deployment of viruses botnets and email scams such as phishing Symantec s 2012 Norton Cybercrime Report stated that the world spent an estimated 110 billion to combat cybercrime an average of nearly 200 per victim Law enforcement agencies and corporate security officers around the world with the responsibility for enforcing investigating and prosecuting cybercrime are overwhelmed not only by the sheer number of crimes being committed but by a lack of adequate training material This book provides that fundamental knowledge including how to properly collect and document online evidence trace IP addresses and work undercover Provides step by step instructions on how to investigate crimes online Covers how new software tools can assist in online investigations Discusses how to track down interpret and understand online electronic evidence to benefit investigations Details guidelines for collecting and documenting online evidence that can be presented in court **Advances in Digital Forensics** Mark Pollitt,Sujeet Shenoi,2006-03-28 Digital forensics deals with the acquisition preservation examination analysis and presentation of electronic evidence Networked computing wireless communications and portable electronic devices have expanded the role of digital forensics beyond traditional computer crime investigations Practically every crime now involves some aspect of digital evidence digital forensics provides the techniques and tools to articulate this evidence Digital forensics also has myriad intelligence applications Furthermore it has a vital role in information assurance investigations of security breaches yield valuable information that can be used to design more secure systems Advances in Digital Forensics describes original research results and innovative applications in the emerging discipline of digital forensics In addition it highlights some of the major technical and legal issues related to digital evidence and electronic crime investigations The areas of coverage include Themes and Issues in Digital Forensics Investigative Techniques Network Forensics Portable Electronic Device Forensics Linux and File System Forensics Applications and Techniques This book is the first volume of a new series produced by the International Federation for Information Processing IFIP Working Group 11 9 on Digital Forensics an international community of scientists engineers and practitioners dedicated to advancing the state of the art of research and practice in digital forensics The book contains a selection of twenty five edited papers from the First Annual IFIP WG 11 9 Conference on Digital Forensics held at the National Center for Forensic Science Orlando Florida USA in February 2005 Advances in Digital Forensics is an important resource for researchers

faculty members and graduate students as well as for practitioners and individuals engaged in research and development efforts for the law enforcement and intelligence communities Mark Pollitt is President of Digital Evidence Professional Services Inc Ellicott City Maryland USA Mr Pollitt who is retired from the Federal Bureau of Investigation FBI served as the Chief of the FBI s Computer Analysis Response Team and Director of the Regional Computer Forensic Laboratory National Program Sujeet Shenoi is the F P Walter Professor of Computer Science and a principal with the Center for Information Security at the University of Tulsa Tulsa Oklahoma USA For more information about the 300 other books in the IFIP series please visit www springeronline com For more information about IFIP please visit www ifip org **Handbook of Research on Network Forensics and Analysis Techniques** Shrivastava, Gulshan,Kumar, Prabhat,Gupta, B. B.,Bala, Suman,Dey, Nilanjan,2018-04-06 With the rapid advancement in technology myriad new threats have emerged in online environments The broad spectrum of these digital risks requires new and innovative methods for protection against cybercrimes The Handbook of Research on Network Forensics and Analysis Techniques is a current research publication that examines the advancements and growth of forensic research from a relatively obscure tradecraft to an important part of many investigations Featuring coverage on a broad range of topics including cryptocurrency hand based biometrics and cyberterrorism this publication is geared toward professionals computer forensics practitioners engineers researchers and academics seeking relevant research on the development of forensic tools **Technology in Forensic Science** Deepak Rawtani,Chaudhery Mustansar Hussain,2020-11-02 The book Technology in Forensic Science provides an integrated approach by reviewing the usage of modern forensic tools as well as the methods for interpretation of the results Starting with best practices on sample taking the book then reviews analytical methods such as high resolution microscopy and chromatography biometric approaches and advanced sensor technology as well as emerging technologies such as nanotechnology and taggant technology It concludes with an outlook to emerging methods such as AI based approaches to forensic investigations **Cybercrime** Kevin Hile,2009-12-18 The frequency and sophistication of cyber attacks has increased dramatically over the past 20 years and is only expected to grow The threat has reached the point that with enough motivation and funding a determined hacker will likely be able to penetrate any system that is directly accessible from the internet The book details the investigative work used to battle cybercrime Students will learn about the specialists in this field and the techniques they employ to gather evidence and make cases The tiniest bit of evidence can unravel the most puzzling of crimes Includes sidebars containing first person accounts and historical crime solving breakthroughs An annotated bibliography is included **Cybercrime** Gráinne Kirwan,Andrew Power,2013-08-08 Cybercrime is a growing problem in the modern world Despite the many advantages of computers they have spawned a number of crimes such as hacking and virus writing and made other crimes more prevalent and easier to commit including music piracy identity theft and child sex offences Understanding the psychology behind these crimes helps to determine what motivates and

characterises offenders and how such crimes can be prevented This textbook on the psychology of the cybercriminal is the first written for undergraduate and postgraduate students of psychology criminology law forensic science and computer science It requires no specific background knowledge and covers legal issues offenders effects on victims punishment and preventative measures for a wide range of cybercrimes Introductory chapters on forensic psychology and the legal issues of cybercrime ease students into the subject and many pedagogical features in the book and online provide support for the student **Official (ISC)2 Guide to the CISSP CBK** Steven Hernandez, CISSP,2006-11-14 The urgency for a global standard of excellence for those who protect the networked world has never been greater ISC 2 created the information security industry s first and only CBK a global compendium of information security topics Continually updated to incorporate rapidly changing technologies and threats the CBK continues to serve as the basis for ISC 2 s education and certification programs Unique and exceptionally thorough the Official ISC 2 Guide to the CISSP CBK provides a better understanding of the CISSP CBK a collection of topics relevant to information security professionals around the world Although the book still contains the ten domains of the CISSP some of the domain titles have been revised to reflect evolving terminology and changing emphasis in the security professional s day to day environment The ten domains include information security and risk management access control cryptography physical environmental security security architecture and design business continuity BCP and disaster recovery planning DRP telecommunications and network security application security operations security legal regulations and compliance and investigations Endorsed by the ISC 2 this valuable resource follows the newly revised CISSP CBK providing reliable current and thorough information Moreover the Official ISC 2 Guide to the CISSP CBK helps information security professionals gain awareness of the requirements of their profession and acquire knowledge validated by the CISSP certification The book is packaged with a CD that is an invaluable tool for those seeking certification It includes sample exams that simulate the actual exam providing the same number and types of questions with the same allotment of time allowed It even grades the exam provides correct answers and identifies areas where more study is needed

Intelligent Control, Robotics, and Industrial Automation Shilpa Suresh,Shyam Lal,Mustafa Servet Kiran,2024-10-16 This volume comprises peer reviewed proceedings of the International Conference on Robotics Control Automation and Artificial Intelligence RCAAI 2023 It aims to provide a broad spectrum picture of the state of art research and development in the areas of intelligent control the Internet of Things machine vision cybersecurity robotics circuits and sensors among others This volume will provide a valuable resource for those in academia and industry

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